

### ATTACHMENT G. – Summary of Reasonable Potential Analysis

Constituent	Units	MEC	B	C	CMC	CCC	Water & Org	Org. Only	Basin Plan	MCL	Reasonable Potential
Ammonia <sup>(1)</sup>	mg/l	-	-	<b>0.72</b>	2.14	0.72		0.72			UD
Antimony, Total Recoverable	µg/L	47 <sup>N</sup>	<4	<b>6</b>			--			6	<b>Yes</b>
Arsenic, Total Recoverable	µg/L	1,590 <sup>N</sup>	66	<b>10</b>	340	150	--	--	--	10	<b>Yes</b>
Barium, Total Recoverable	µg/L	823 <sup>N</sup>	22	<b>1,000</b>	--	--	--	--	--	1,000	No
Beryllium, Total Recoverable	µg/L	6 <sup>M</sup>	<1	<b>4</b>	--	--	--	--	--	4	UD
Cadmium, Total Recoverable	µg/L	21.4 <sup>N</sup>	<1	<b>0.46</b>	3.12	1.9			0.46		<b>Yes</b>
Chlorine	mg/l	2	ND	<b>0.01</b>				0.01		4	UD
Chromium, Total	µg/L	277 <sup>N</sup>	<1	<b>50</b>			--	--	--	50	<b>Yes</b>
Cobalt, Total Recoverable	µg/L	54 <sup>N</sup>	<1	<b>50</b>					50 <sup>(2)</sup>		<b>Yes</b>
Copper, Total Recoverable	µg/L	221 <sup>M</sup>	2	<b>7.0</b>	10.3	7.0	--	--	--		<b>Yes</b>
Electrical Conductivity	µmhos/cm	1,239 <sup>I</sup>	459	<b>1600</b>			--	--		1,600 <sup>(3)</sup>	<b>No</b>
Lead, Total Recoverable	µg/L	1,740	4	<b>2.1</b>	53.7	2.1	--	--	--	15	<b>Yes</b>
Mercury, Total Recoverable	µg/L	0.21 <sup>N</sup>	<0.07	<b>0.050</b>	--	--	0.050	0.051	--	0.2	<b>Yes</b>
Molybdenum, Total Recoverable	µg/L	38 <sup>N</sup>	1	<b>10</b>	--	--	--	--	10 <sup>(2)</sup> --		<b>Yes</b>
Nickel, Total Recoverable	µg/L	265 <sup>N</sup>	3	<b>39.5</b>	355	39.5	610	4,600	--	100	<b>Yes</b>
Nitrate (as N) <sup>(1)</sup>	mg/L	4 <sup>S</sup>	UD	<b>10</b>						10	UD <sup>(4)</sup>
Selenium, Total Recoverable	µg/L	4 <sup>S</sup>	3	<b>5.0</b>	20	5.0	--				No
Silver, Total Recoverable	µg/L	8 <sup>N</sup>	1	<b>2.3</b>	2.3	--	--	--	--		<b>Yes</b>
Sulfate (dissolved)	mg/L	90 <sup>S</sup>	UD	<b>250</b>						250 <sup>(2)</sup>	UD <sup>(4)</sup>
TDS	mg/L	796 <sup>I</sup>	166	<b>1,000</b>						1,000 <sup>(3)</sup>	No
Total Petroleum Hydrocarbons (Diesel)	µg/L			<b>50</b>					50		UD
Thallium	µg/L	<b>ND</b>	<b>ND</b>	<b>1.7</b>			1.7				No
Vanadium	µg/L	280 <sup>N</sup>	3	<b>100</b>					100 <sup>(3)</sup>		<b>Yes</b>
Zinc	µg/L	1,380 <sup>M</sup>	15	<b>26.7</b>	90.7	90.7			26.7		<b>Yes</b>

Bullion River Gold Corp, French Gulch (Nevada) Mining Corp,  
And U.S. Department of Agriculture, Bureau of Land Management  
Washington Mine, Shasta County

Order No. R5-2010-XXXX  
NPDES No. CAXXXXXXXX

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MEC = Maximum Effluent Concentration

B = Maximum Receiving Water Concentration or lowest detection level, if non-detect

C = Criterion used for Reasonable Potential Analysis

CMC = Criterion Maximum Concentration (CTR criterion unless otherwise noted)

CCC = Criterion Continuous Concentration (CTR criterion unless otherwise noted)

Water & Org = Water and Organism Criterion Concentration (CTR or NTR)

Org Only = Consumption of Organism Only Criterion Concentration (CTR or NTR)

Basin Plan = Numeric Site-specific Basin Plan Water Quality Objective

MCL = Drinking Water Standards Maximum Contaminant Level

NA = Not available

ND = Reported as non-detect

NR = Not reported

NC = No criteria

UD = Undetermined

I=I Level Adit

N=New Adit

Footnotes:

- (1) Residue from explosives
- (2) Secondary MCL
- (3) Upper level for drinking water
- (4) Monitoring is included in this Order for this constituent in accordance with Step 8 of Section 1.3 in the SIP which requires monitoring for constituents for which there is insufficient data.
- (5) MEC is number provided in NPDES permit application